

Industry Visit to C & C Infrastructure

[Friday, 25th Feb, 2011]

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A visit to C&C Infrastructure Head office, Greater Noida was organised on Friday, 25th Feb, 2011 in which 20 students participated with enthusiastic passion. The visit was arranged by the concerned teacher of the OIS module Ms. Daminni Grover for which we are grateful to her. The industry visit was a success in every respect, from being beneficial to the students in terms of gaining knowledge to being an event of college-outing as well. Overall the response of the participants was really positive.

It was a fresh sunny friday, we all gathered outside the university campus with an exhilarating feeling. Then we headed towards the C&C Infrastructure Head Office located in Greater Noida. It was an enjoyable ride across the city in a school bus that brought back a lot of memories for some of the students. The good part of the concept of bringing up an industry visit is learning along with fun, this surely was fulfilled by students who played games like dumbcharades, atlas and many more. At about 12 noon, we reached the Yamuna Express way construction site; subcontractor: C & C Infrastructure, Client: Jaiprakash.

The Yamuna Expressway (formerly Taj Expressway) Project was conceived with the idea of reducing the travel time between New Delhi and Agra. It will be a 6-lane (extendable to 8 lanes) access-controlled Expressway and will connect Delhi with Agra via Mathura.

The Expressway is to be developed in three phases:-

1. Phase I: Expressway Stretch between Greater Noida & Taj International Airport.
2. Phase-II: Expressway Stretch between Taj International Airport and an intermediate destination between Taj International Airport & Agra.
3. Phase III: Expressway Stretch between intermediate destination & Agra.

Project is slated to be completed by 2010 and is being executed by Jaypee group. Its length is 165.5km and its pavement was rigid and this expressway would be having 3 toll plazas extendable to 7 toll plazas and 35 underpass. The worth of this project is around 324 crores. This was the main crux of this project.

After visiting this site , we headed towards the manufacturing site of JP group ,here all the raw materials were majorly made by machines thus making it highly capital intensive as compared to the previous site where the road was being built majorly by and machine force and human labour .

Major equipments used: 1) Batching plant 2) Tunnel to material handling plant 3) Grading of GSB in progress

Snap Shots



Yamuna Expressway construction site



Conveyor belt attached to the main machine



Machine used for road construction-value 10 cr



Students interacted with Chief Project Manager



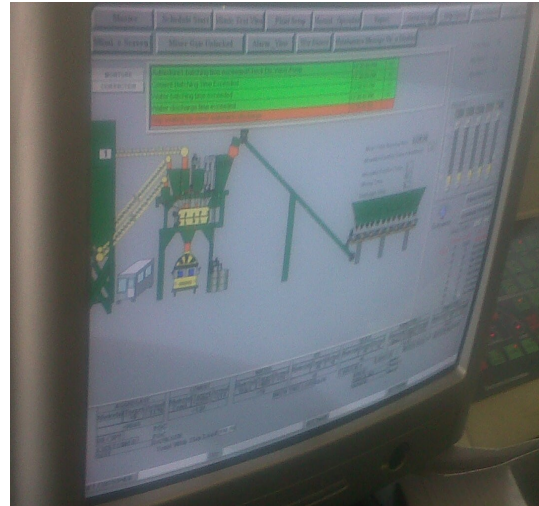
Rock crusher



Road making divisions



People at work...



C&C Main Server

We were shown the various machines that were being used for manufactured sand and cement. For cost saving the machines were designed in such a fashion that reduced down on unnecessary movement. For instance, there was a path above which was the sand filter which could directly fill a truck which transported the required mixture of cement to the construction site.

The machines were smart using new technology ; the sand & stones were delivered to the conveyor belt via the various crushers and tunnel. The machines used were highly efficient & making the whole process very time saving which enabled C & C Infrastructure to achieve economies of scale . Thus , also making the process cost effective.

The machines used at this site acted like robots ; a person feeded in the required instructions and accordingly the machines executed the process. This made the work precise and accurate. The data communication channel used by C&C infrastructure were both wirebased and wireless. For instance, they used Radio Frequency (RF) between sites to communicate and resulting in fast flow of information for the various departments.

The type of networking that they used were based on the basis of topologies and communication model: star topology & client/server model respectively. Star topology because the nodes were dependent on the main server as the information was executed via the main server similar is the case in the client/server model. They used the internet Service Provider whereby a dish was installed at the head office through which information was made accessible. Extranet and Intranet was being used which had a public id and password which only some seniors & executives could view, for security purposes only a few authorized resources could be accessed globally. Oracle Apps 11.5.10.2 was the application software type that was being used over there. At the office , we were shown a documentation on Enterprise Resource Planning(ERP).ERP helps them to share the data across the various departments.

To conclude with the whole trip was mesmerizing and breathtaking and we all look forward to more trips like these.